Claims:

5

10

15

A bioadhesive composition that comprises:

 a particulate polymeric resin with an average particle size of less than or equal to about 100 μm and comprising at least about 55% by weight of carboxylic acid moieties based on the total weight of the polymeric resin;

2) from about 20 parts to about 250 parts by weight of a hydrophobic elastomeric component, based on 100 parts by weight of the resin; and 3) an amount of a drug effective to

provide a desired therapeutic result, wherein the resin and the drug are dispersed substantially throughout the elastomeric component, and which composition contains less than about 10% water by weight based on the weight of the polymeric resin, exhibits substantially no instantaneous adhesion to dry skin, and adheres to a mucosal surface.

- 2. A composition according to Claim 1, wherein the hydrophobic elastomeric component comprises a block styrene-butadiene-styrene copolymer, a block styrene-isoprene-styrene copolymer, a polyisobutylene, a polybutadiene, an isoprene rubber, a carboxy-functional polyisoprene, an acrylate elastomer, or a mixture of two or more of the foregoing.
  - 3. A composition according to Claim 1, wherein the elastomeric component comprises a plasticizer.
- 4. A composition according to Claim 1, wherein the polymeric resin consists essentially of acrylic acid monomer units.
- 5. A composition according to Claim 4, wherein the resin is covalently crosslinked with about 0.75% to about 2% by weight based on the total weight of the resin of a polyalkenyl polyether.

10

15

20

- 6. A composition according to Claim 1, wherein up to about 30% of the carboxylic acid moieties of the resin are neutralized by a base.
- 7. A composition according to Claim 6, wherein the base is selected from the group consisting of Al(OH), and Ca(OH),.
- 8. A composition according to Claim 6, wherein the base is a polyamine.
- 9. A composition according to Claim 1, wherein the elastomeric component is a hydrocarbon.
- 10. A composition according to Claim 9, wherein the elastomeric component comprises a polyisoprene with a molecular weight of about 500,000 to about 1,200,000 a polybutadiene with a molecular weight of about 100,000 to about 500,000, or a mixture thereof.
- 11. A composition according to Claim 9, wherein the elastomeric component is a mixture comprising about 5% to about 50% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 50% to about 95% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
- 12. A composition according to Claim 9, wherein the elastomeric component is a mixture comprising about 15% to about 25% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 75% to about 85% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
- 13. A composition according to Claim 9, wherein the elastomeric component is a mixture comprising about 20% by weight of a polyisobutylene with a viscosity... average molecular weight between about 500,000 and about 2.5 million, and about 80% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.

15

20

25

- 14. A composition according to Claim 9, wherein the elastomeric component is a mixture comprising about 20% by weight of a polyisobutylene with a viscosity average molecular weight about 1.25 million and about 80% by weight of a polyisobutylene with a viscosity average molecular weight about 53,000.
- 15. A composition according to Claim 1, prepared by a process comprising the steps of:
  - 1) adding to a mill the constituent or constituents of the elastomeric component;
  - 2) milling the constituent or constituents of the elastomeric component to afford a substantially homogeneous elastomeric component;
  - 3) milling the particulate polymeric resin, the drug, and the substantially homogeneous elastomeric component from step (2) to form a homogeneous composition.
- 16. A composition according to Claim 15, wherein the constituents of the elastomeric component comprise: about 5% to about 50% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million; and about 50% to about 95% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
- 17. A composition according to Claim 15, wherein the constituents of the elastomeric component comprise: about 15% to about 25% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 75% to about 85% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
- 18. A composition according to Claim 15,
  wherein the constituents of the elastomeric component
  comprise: about 20% by weight of a polyisobutylene with a
  viscosity average molecular weight between about 500,000

and about 2.5 million, and about 80% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.

- 19. A composition according to Claim 15, wherein the constituents of the elastomeric component comprise: about 20% by weight of a polyisobutylene with a viscosity average molecular weight about 1.25 million and about 80% by weight of a polyisobutylene with a viscosity average molecular weight about 53,000.
- 20. A composition according to Claim 15, wherein the constituents of the elastomeric component comprise: about 60% to 100% of a polyisobutylene with a viscosity average molecular weight of about 750,000 to about 1,500,000; and 0% to about 40% of a polyisobutylene with a viscosity average molecular weight of about 40,000 to about 100,000.
- 21. A composition according to Claim 15, wherein the constituents of the elastomeric component are selected from the group consisting of a polyisoprene with a molecular weight of about 500,000 to about 1,200,000, a polybutadiene with a molecular weight of about 100,000 to about 500,000, a mixture of two or more of said polyisoprenes, a mixture of two or more of said polybutadienes, and a mixture of one or more of said polyisoprenes and one or more of said polybutadienes.
- 22. A composition according to Claim 1, wherein the resin has an average particle size between about 1  $\mu m$  and about 80  $\mu m$  .
- 23. A composition according to Claim 1, wherein the resin has an average particle size of between about 2  $\mu$ m and about 10  $\mu$ m.
  - 24. A composition according to Claim 1,... comprising about 20 to about 150 parts by weight of the elastomeric component based on 100 parts by weight of the resin.

35

10

15

20

25

20

- 25. A composition according to Claim 1, comprising about 25 to about 75 parts by weight of the elastomeric component based on 100 parts by weight of the resin.
- 26. A composition according to Claim 1, which contains less than about 4% water by weight based on the total weight of the resin.
- 27. A composition according to Claim 1, which contains less than about 2% water by weight based on the total weight of the resin.
- 28. A composition according to Claim 1, wherein the drug is one that exhibits systemic action.
- 29. A composition according to Claim 1, wherein the drug is a narcotic analysis.
- 30. A composition according to Claim 1, wherein the drug is morphine or a pharmaceutically acceptable salt thereof.
  - 31. A composition according to Claim 1, wherein the drug is selected from the group consisting of digoxin, heparin, hydromorphone, buprenorphine, theophylline, melatonin, and pharmaceutically acceptable salts thereof.
  - 32. A composition according to Claim 1, wherein the resin is distributed substantially uniformly throughout the elastomeric component.
- 33. A composition according to Claim 1, wherein the resin is distributed throughout the elastomeric component in a suitable gradient.
  - 34. A composition according to Claim 1, wherein the drug is distributed substantially uniformly throughout the elastomeric component.
  - 35. A composition according to Claim 1, wherein the drug is distributed throughout the elastomeric component in a suitable gradient.
- 36. A composition according to Claim 1, wherein the drug is absorbed into the resin, adsorbed on the resin, or ionically bound to the resin.

30

- 37. A process for preparing a composition according to Claim 1 in a mill which process comprises the steps of:
  - 1) milling the elastomeric component to afford a substantially homogeneous elastomeric component;
  - 2) milling the particulate polymeric resin, the drug, and the substantially homogeneous elastomeric component from step (1) to form a substantially homogeneous composition.
- 38. A process according to Claim 37 wherein the drug is absorbed into the resin adsorbed on the resin, or ionically bound to the resin prior to step (2).
  - 39. A process for preparing a composition according to Claim 1, comprising the steps of:
- (1) dissolving the elastomeric component in a volatile organic solvent;
  - (2) dispersing the resin and the drug substantially uniformly in the solution formed in step (1); and
- 20 (3) removing the solvent from the dispersion of step (2).
  - 40. A process according to Claim 39, wherein the drug is absorbed into the resin, adsorbed on the resin, or ionically bound to the resin prior to step (2).
- 41. A sheet material comprising a composition according to Claim 1 with a flexible film backing applied thereto.
  - 42. A bioadhesive composition that comprises:
  - 1) a particulate polymeric resin with an average particle size of less than or equal to about 100  $\mu$ m and comprising at least about 55% by weight of carboxylic acid moieties based on the total weight of the polymeric resin;
  - 2) from about 20 parts to about 250 parts by weight of a hydrophobic elastomeric component, based on 100 parts by weight of the resin; and

15

20

35

provide a desired therapeutic result,
wherein the resin and the drug are dispersed substantially
throughout the elast meric component, and which
composition contains less than about 10% water by weight
based on the weight of the polymeric resin, exhibits
substantially no instantaneous adhesion to dry skin,
adheres to a mucosal surface, and exhibits a duration of
adhesion to human oral mucosa of at least about 6 hours
when tested according to the Test Method.

- 43. A composition according to Claim 42, which exhibits a duration of adhesion of at least about 8 hours when tested according to the Test Method.
- 44. A composition according to Claim 42, which exhibits a duration of adhesion of at least about 12 hours when tested according to the Test Method.
- 45. A composition according to Claim 42, wherein the hydrophobic elastomeric component comprises a block styrene-butadiene-styrene copolymer, a block styrene-isoprene-styrene copolymer, a polyisobutylene, a polybutadiene, an isoprene rubber, a carboxy-functional polyisoprene, a hydroxy-functional polyisoprene, an acrylate elastomer, or a mixture of two or more of the foregoing.
- 46. A composition according to Claim 42, wherein the elastomeric component comprises a plasticizer.
  - 47. A composition according to Claim 42, wherein the polymeric resin consists essentially of acrylic acid monomer units.
- 48. A composition according to Claim 47, wherein the resin is covalently crosslinked with about 0.75% to about 2% by weight based on the total weight of the resin of a polyalkenyl polyether.
  - 49. A composition according to Claim 42, wherein up to about 30% of the carboxylic acid moieties of the resin are neutralized by a base.
    - 50. A composition according to Claim 49, wherein the base is selected from the group consisting of  $Al(OH)_3$  and  $Ca(OH)_2$ .

- 51. A composition according to Claim 49, wherein the base is a polyamine.
- 52. A composition according to Claim 42, wherein the elastomeric component is a hydrocarbon.
- 53. A composition according to Claim 52, wherein the elastomeric component comprises a polyisoprene with a molecular weight of about 500,000 to about 1,200,000, a polybutadiene with a molecular weight of about 100,000 to about 500,000, or a mixture thereof.
- 54. A composition according to Claim 52, wherein the elastomeric component is a mixture comprising about 5% to about 50% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 50% to about 95% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
  - 55. A composition according to Claim 52, wherein the elastomeric component is a mixture comprising about 15% to about 25% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 75% to about 85% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
  - the elastomeric component is a mixture comprising about 20% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 80% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
    - A composition according to Claim 52, wherein the elastomeric component is a mixture comprising about 20% by weight of a polyisobutylene with a viscosity average molecular weight about 1.25 million and about 80% by weight of a polyisobutylene with a viscosity average molecular weight about 53,000.

20

25

30

10

15

30

58. A composition according to Claim 1, prepared by a process comprising the steps of:

- adding to a mill the constituent or constituents of the elastomeric component;
- 2) milling the contituent or constituents of the elastomeric component to afford a substantially homogeneous elastomeric component;
- 3) milling the particulate polymeric resin, the drug, and the substantially homogeneous elastomeric component from step (2) to form a substantially homogeneous composition.
- 59. A composition according to Claim 58, wherein the constituents of the elastomeric component comprise: about 5% to about 50% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million; and about 50% to about 95% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
- wherein the constituents of the elastomeric component comprise: about 15% to about 25% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 75% to about 85% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
  - 61. A composition according to Claim 58, wherein the constituents of the elastomeric component comprise: about 20% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 80% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
- 62. A composition according to Claim 58, wherein the constituents of the elastomeric component comprise: about 20% by weight of a polyisobutylene with a

10

15

20

25

viscosity average molecular weight about 1.25 million and about 80% by weight of a polyisobutylene with a viscosity average molecular weight about 53,000.

- 63. A composition according to Claim 58, wherein the constituents of the elastomeric component comprise: about 60% to 100% of a polyisobutylene with a viscosity average molecular weight of about 750,000 to about 1,500,000; and 0% to about 40% of a polyisobutylene with a viscosity average molecular weight of about 40,000 to about 100,000.
- 64. A composition according to Claim 58, wherein the constituents of the elastomeric component are selected from the group consisting of a polyisoprene with a molecular weight of about 500,000 to about 1,200,000, a polybutadiene with a molecular weight of about 100,000 to about 500,000, a mixture of two or more of said polyisoprenes, a mixture of two or more of said polybutadienes, and a mixture of one or more of said polybutadienes and one or more of said polybutadienes.
- 65. A composition according to Claim 42, wherein the resin has an average particle size of between about 1  $\mu m$  and about 80  $\mu m$ .
- 66. A composition according to Claim 42, wherein the resin has an average particle size of between about 2  $\mu m$  and about 10  $\mu m$ .
- 67. A composition according to Claim 42, comprising about 20 to about 150 parts by weight of the elastomeric component based on 100 parts by weight of the resin.
- 68. A composition according to Claim 42, comprising about 25 to about 75 parts by weight of the elastomeric component based on 100 parts by weight.of the resin.
- 69. A composition according to Claim 42, which contains less than about 4% water by weight based on the total weight of the resin.

10

15

20

25

- 70. A composition according to Claim 42, which contains less than about 2% water by weight based on the total weight of the resin.
- 71. A composition according to Claim 42, wherein the drug is one that exhibits systemic action.
- 72. A composition according to Claim 42, wherein the drug is a narcotic analgesic.
- 73. A composition according to Claim 42, wherein the drug is morphine or a pharmaceutically acceptable salt thereof.
- 74. A composition according to Claim 42, wherein the drug is selected from the group consisting of digoxin, heparin, hydromorphone, buprenorphine, theophylline, melatonin, and pharmaceutically acceptable salts thereof.
- 75. A sheet material comprising a composition according to Claim 42 with a flexible film backing applied thereto.
- 76. A composition according to Claim 42, wherein the resim is distributed substantially uniformly throughout the elastomeric component.
  - 77. A composition according to Claim 42, wherein the resin is distributed throughout the elastomeric component in a suitable gradient.
- 78. A composition according to Claim 42, wherein the drug is distributed substantially uniformly throughout the elastomeric component.
- 79. A composition according to Claim 42, wherein the drug is distributed throughout the elastomeric component in a suitable gradient.
- wherein the drug is absorbed into the resin, adsorbed on the resin or ionically bound to the resin.
- 81. A process for preparing a composition according to Claim 42 in a mill which process comprises the steps of:
  - 1) milling the elastomeric component to afford a substantially homogeneous elastomeric component;

milling the particulate polymeric

resin, the drug, and the substantially homogeneous elastomeric component from step (1) /to form a substantially homogeneous composition. A process according to claim 81 wherein the drug is absorbed into the resin, adsorbed on the resin, or ionically bound to the resin prior to/step (2). A process for preparing a composition according to Claim 42, comprising the steps of: 1) dissolving the elastomeric component in 10 a volatile organic solvent; dispersing the resin and the drug substantially uniformly in the solution formed in step (1); and 3) removing the solvent from the dispersion 15 of step (2). A process according to Claim 83, wherein the drug is absorbed into the  $r \neq sin$ , adsorbed on the resin, or ionically bound to f he resin prior to step (2). 85. A patch compri/sing 20 a flexible film backing; and a bioadhesive composition on one surface of the flexible film, the bioadhesive composition comprising a particulate polymeric resin 25 with an average particle size of less than or equal to about 100  $\mu m$  and comprising/at least about 55% by weight of carboxy/lic acid moieties based on the total weight of the polymeric resin; 30 ii) / from about 20 parts to about 250 parts by weight of a hydrophobic... elastomeric component, based on 100 parts by weight of the resin; and ii/i) an amount of a drug effective 35 to provide a desired therapeutic effect, wherein the resin  $a\eta d$  the drug are dispersed substantially

35

throughout the elastomeric component, and which composition contains less than about 10% water by weight based on the weight of the polymeric resin, exhibits substantially no instantaneous adhesion to dry skin, and adheres to a mucosal surface,

which patch is further characterized in that it exhibits a duration of adhesion to human oral mucosa of at least about 6 hours when tested according to step 2 of the Test Method.

- 10

  86. A patch according to Claim 85, wherein the hydrophobic elastomeric component comprises a block styrene-butadiene-styrene copolymer, a block styrene-isoprene-styrene copolymer, a polybutadiene, a polyisobutylene, an isoprene rubber, a carboxy-functional polyisoprene, a hydroxy-functional polyisoprene, an acrylate elastomer, or a mixture of two or more of the foregoing.
  - 87. A patch according to Claim 85, wherein the elastomeric component comprises a placticizer.
- 20 88. A patch according to Claim 85, wherein the polymeric resin consists essentially of acrylic acid monomeric units.
  - 89. A patch according to Claim 85, wherein the resin is covalently crosslinked with about 0.75% to about 2% by weight of a polyalkenyl polyether.
  - 90. A patch according to Claim 85, wherein up to about 30% of the carboxylic acid moieties of the resin are neutralized by a base.
- 91. A patch according to Claim 90, wherein the 30 base is selected from the group consisting of Al(OH), and Ca(OH),.
  - 92. A patch according to Claim 90, wherein the base is a polyamine.
  - 93. A patch according to Claim 85, wherein the elastomeric component is a hydrocarbon.
    - 94. A patch according to Claim 93, wherein the elastomeric component comprises a polyisoprene with a molecular weight of about 500,000 to about 1,200,000, a

polybutadiene with a molecular weight of about 100,000 to about 500,000, or a mixture thereof

- 95. A patch according to Claim 93, wherein the elastomeric component is a mixture comprising about 5% to about 50% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 50% to about 95% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
- 96. A patch according to Claim 93, wherein the elastomeric component is a mixture comprising about 15% to about 25% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 75% to about 85% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
  - 97. A patch according to Claim 93, wherein the elastomeric component is a mixture comprising about 20% of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 80% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.
- 98. A patch according to Claim 93, wherein the
  25 elastomeric component is a mixture comprising about 20% by
  weight of a polyisobutylene with a viscosity average
  molecular weight about 1.25 million and about 80% by
  weight of a polyisobutylene with a viscosity average
  molecular weight about 53,000.
- 30 99. A patch according to Claim 85, prepared by a process comprising the steps of:
  - 1) adding to a mill the constituent.or constituents of the elastomeric component;
- of the elastomeric component to afford a substantially homogeneous elastomeric component;

3) milling the particulate polymeric resin, the drug, and the substantially homogeneous elastomeric component from step (2) to form a substantially homogeneous composition; and

4) applying the flexible film backing to the composition from step (3).

100. A patch according to Claim 99, wherein the constituents of the elastomeric component comprise: about 5% to about 50% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million; and about 50% to about 95% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.

101. A patch according to Claim 99, wherein the constituents of the elastomeric component comprise: about 15% to about 25% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 75% to about 85% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.

102. A patch according to Claim 99, wherein the constituents of the elastomeric component comprise: about 20% by weight of a polyisobutylene with a viscosity average molecular weight between about 500,000 and about 2.5 million, and about 80% by weight of a polyisobutylene with a viscosity average molecular weight between about 40,000 and about 100,000.

103. A patch according to Claim 99, wherein the constituents of the elastomeric component comprise: about 20% by weight of a polyisobutylene with a viscosity average molecular weight about 1.25 million and about 80% by weight of a polyisobutylene with a viscosity average molecular weight about 53,000.

constituents of the elastomeric component comprise: about 60% to 100% of a polyisobutylene with a viscosity average molecular weight of about 750,000 to about 1,500,000; and 0% to about 40% of a polyisobutylene with a viscosity average molecular weight of about 40,000 to about 100,000.

True than that were

5

10

15

20

25

A patch according to Claim 99, wherein the constituents of the elastomeric component are selected from the group consisting of a polyisoprene with a molecular weight of about 500,000 to about 1,200,000, a polybutadiene with a molecular weight of about 100,000 to about 500,000, a mixture of two or more of said polyisoprenes, a mixture of two or more of said polybutadienes, and a mixture of one or more of said polyisoprenes and one or more of said polybutadienes.

106. A patch according/to Claim 85, wherein the 10 resin has an average particle size of between about 1  $\mu$ m and about 80  $\mu$ m.

107. A patch according to Claim 85, wherein the resin has an average particle size of between about 2 µm and about 10 µm.

108. A patch according to Claim 85, comprising about 20 to about 150 parts by weight of the elastomeric component based on 100 parts/by weight of the resin.

A patch according to Claim 85, comprising about 25 to about 75 parts/by weight of the elastomeric 20 component based on 100 parts by weight of the resin.

A patch according to Claim 85, which contains less than about /4% water by weight based on the total weight of the resi/n.

A patch/according to Claim 85, which 25 contains less than about 2% water by weight based on the total weight of the resin.

112. A patoh according to Claim 85, wherein the drug is one that exhibits systemic action.

A patch according to Claim 85, wherein the 113. 30 drug is a narcotic analgesic.

A patch according to Claim 85, wherein the drug is morphine or/a pharmaceutically acceptable salt thereof.

A patch according to Claim 85, wherein the 35 drug is selected from the group consisting of digoxin, heparin, hydromorphone, buprenorphine, theophylline, melatonin, and pharmaceutically acceptable salts thereof.

Ų

15

20

30

- 116. A patch according to Claim 85, wherein the resin is distributed substantially uniformly throughout the elastomeric component.
- 117. A patch according to Claim 85, wherein the resin is distributed throughout the elastomeric component in a suitable gradient.
- 118. A patch according to Claim 85, wherein the drug is distributed substantially uniformly throughout the elastomeric component.
- 119. A patch according to Claim 85, wherein the drug is distributed throughout the elastomeric component in a suitable gradient.
  - 120. A patch according to Claim 85, which exhibits a duration of adhesion of at least about 8 hours when tested according to Step 2 of the Test Method.
  - 121. A patch according to Claim 85, which exhibits a duration of adhesion of at least about 12 hours when tested according to Step 2 of the Test Method.
  - 122. A method of achieving and/or maintaining a therapeutically effective blood level of a drug in a mammal, which method comprises the steps of:
  - a) adhering a composition according to Claim 1 to a mucosal surface of a mammal; and
- b) allowing the composition to remain adhered for a time sufficient to release drug such that a therapeutically effective blood level of drug is achieved and/or maintained.
  - 123. A method of achieving and/or maintaining a therapeutically effective blood level of a drug in a mammal, which method comprises the steps of:
  - a) adhering a patch according to Claim 85 to a mucosal surface of a mammal; and ...
  - b) allowing the patch to remain adhered for a time sufficient to release drug such that a therapeutically effective blood level of drug is achieved and/or maintained

124. A method of delivering a drug to a mucosal surface of a mammal or to the vicinity of a mucosal surface of a mammal to provide a therapeutic effect on or in the vicinity of the mucosal surface, which method comprises the steps of:

a) adhering a composition according to Claim 1 to the mucosal surface;

b) allowing the composition to remain adhered for a time sufficient to release the drug to the mucosal surface or to the vicinity of the mucosal surface to provide the desired therapeutic effect.

15

10

20

25

30